

ABSTRACT

The invention relates to Digital Subscriber Line (DSL) infrastructure. More particularly, the present invention relates to a remote Digital Subscriber Line Access Multiplexer (DSLAM) only partially hosted by a central office (CO), split into a central DSL-termination unit (DTS-C), hosted at CO and a remote DSL termination unit (DTS-R), where the DTS-R comprises an analog front end AFE for each DSL line, a multiplexer/demultiplexer unit DeMux, and a transmission network interface A4'. The DTS-C comprises correspondingly a transmission network interface, a multiplexer/de-multiplexer unit Mux, a digital back end Dig for each DSL line. The invention is heavily based on digital signal processing techniques.